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NOTICE OF ALLOWANCE AND FEE(S) DUE

67801 7590 12/01/2008 MARTIN D. MOYNIHAN d/b/a PRTSI, INC. P.O. BOX 16446 ARI INGTON. VA 22215 EXAMINER

MEAH, MOHAMMAD Y

ART UNIT PAPER NUMBER

DATE MAILED: 12/01/2008

 APPELCATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 10/551,715
 07/20/2006
 Irit Sagi
 29993
 6189

TITLE OF INVENTION: ANTIBODIES AND PHARMACEUTICAL COMPOSITIONS CONTAINING SAME USEFUL FOR INHIBITING ACTIVITY OF METALLOPROTEINS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	03/02/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further c indicated unless corrected maintenance fee notification	form should be used for correspondence including the below or directed others.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a							
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Î	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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MARTIN D. M P.O. BOX 16446 ARLINGTON, V	OYNIHAN d/b/a 'A 22215	PRT	SI, INC.	I S a to	hen tate ddre	eby certify that thi	s Feets	Transmittal is being ficient postage for firs ISSUE FEE address I) 273-2885, on the da	deposited	with the United in an envelope being facsimile d below.
				Γ						(Depositor's name)
										(Signature)
				L						(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENT	OR		ATTO	RNEY DOCKET NO.	CONFIRM	MATION NO.
10/551,715	07/20/2006			Irit Sagi				29993	6	189
TITLE OF INVENTION: OF METALLOPROTEIN	S									
APPLN. TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE DU	Œ	PREV. PAID ISSUE	FEE	FEE TOTAL FEE(S) DUE		ATE DUE
nonprovisional	YES		\$755	\$300		\$0	\$1055		03	/02/2009
EXAMI	NER		ART UNIT	CLASS-SUBCLASS						
МЕАН, МОН	AMMAD Y		I652	530-388260						
CFR 1.363). Change of correspond from PTOVSB. Free Address' indip PTOVSB47; Rev 03-0. Number is required. 3. ASSIGNEE NAME AN PLEASE NOTE: Underconduction as set forth (A) NAME OF ASSIG	TD RESIDENCE DATA ss an assignee is ident in 37 CFR 3.11. Comp	" Indica ed. Use	ation form e of a Customer E PRINTED ON T		ngle or aguttor be p type e pa an a	ely, firm (having as a gent) and the name neys or agents. If i orinted. e) tent. If an assigne assignment.	memb s of up no nam	er a 2o to e is 3		s been filed for
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	SMALL ENTITY state	ıs. See	37 CFR I.27.	b. Applicant is no						
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requeords of the United Sta	uired) v tes Pat	will not be accepted ent and Trademark	Office.	un th	ie applicant; a regi	stered a	ittorney or agent; or th	e assignee o	or other party in
Authorized Signature _						Date				
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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10/551,715	07/20/2006	Irit Sagi	29993	6189	
67801 7	590 12/01/2008		EXAMINER		
MARTIN D. MO	YNIHAN d/b/a PRT	MEAH, MOHAMMAD Y			
P.O. BOX 16446		ART UNIT	PAPER NUMBER		
ARLINGTON, V	X 22215	1652			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/551,715 SAGIET AL. Notice of Allowability Examiner Art Unit MD YOUNUS MEAH 1652 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 8/13/08. The allowed claim(s) is/are 7-10,13-14. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 5/1/08

of Biological Material

4. ☐ Examiner's Comment Regarding Requirement for Deposit

9. ☐ Other .

8. X Examiner's Statement of Reasons for Allowance

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Notice of Allowability

Applicants amendment of 08/13/2008 is acknowledged.

Claims 7-14 are pending and under consideration.

3. Claims 7-10, 13-14 are allowed

4 An examiner's amendment to the record appears below:

Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given by Martin Moynihan with Telephone on 11/16/2008.

EXAMINER'S AMENDMENT

Cancel claims 11-12.

Amend the claims 7, 10 and 13-14 as follows:

Claim 7. A method of producing a <u>an</u> antibody which inhibits an activity of gelatinase B, the method comprising:

(a) generating antibodies using a composition a hapten comprising transition metal ion-bound chelator, wherein said composition is selected having structural and electronic properties similar to a functional domain of the gelatinase B chelator comprises substituted porphyrin; and

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Art Unit: 1652

(b) testing an inhibitory effect of said antibodies on the gelatinase B, thereby producing the antibody which inhibits an activity of gelatinase B.

- 10. The method of claim 7, wherein said <u>transition</u> metal ion <u>in the transition</u>

 metal ion bound chelator is a transition metal ion selected from the group consisting of cobalt and Zinc.
 - 13. The method of claim 4110, wherein said polyamine-chelator is porphyrin.
 - 14. The method of claim ₹ 10, wherein said eemposition transition metal ion bound chelator is a tetra-carboxy phenyl porphyrin Zn(II).

The following is an examiner's statement of reasons for allowance:

Applicant has made novel antibody using hapten comprising tetra-carboxy phenyl prophyrin Zn(II) wherein said antibody inhibits activity of gelatinase B. Prior art does not anticipate or suggest the use of hapten comprising tetra-carboxy phenyl prophyrin Zn(II) for the production of antibody that inhibits activity of gelatinase B. As such the claimed antibody made by using hapten comprising tetra-carboxy phenyl prophyrin Zn(II) wherein said antibody inhibits activity of gelatinase B is novel and non-obvious.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad Meah whose telephone number is 571-272-1261. The examiner can normally be reached on 8:30-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NASHAAT T NASHED can be reached on 571-272-0934. The fax phone number for the organization where this application or proceeding is assigned is 571-273-1261.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mohammad Younus Meah Examiner, Art Unit 1652 Recombinant Enzymes, 3C31 Remsen Bld 400 Dulany Street, Alexandria, VA 22314 Teleohone: 517-272-1261

/Nashaat T. Nashed/ Supervisory Patent Examiner, Art Unit 1652